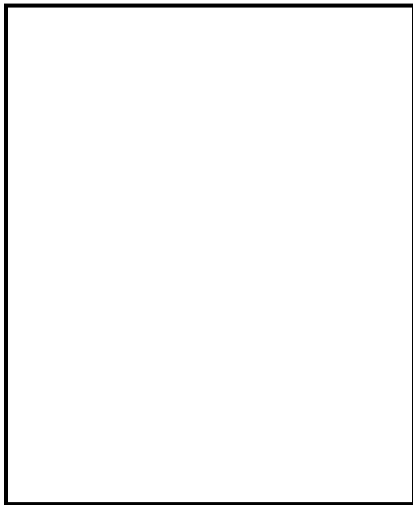


Exploring with Tech Trek Microscopes
Student Guide

Name _____

Look at **two or three** specimens using the different magnifying devices available. Then choose **one** specimen. Record your observations. (Size, color, shape, apparent texture, other descriptions of what you see. Stick to the facts. Comparative information may help you “recall” your observations, but are not the same as an actual observation.
Describe “what you see” using each device. Record your data by drawing descriptive pictures in the box or circle provided.

PSEM (Personal Scanning **Electron** Microscope) or SEM



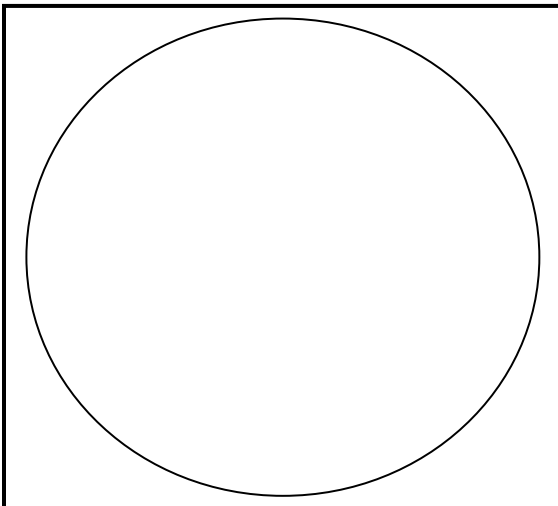
Observations

Specimen #1_____

Magnification_____

TYPES OF LIGHT MICROSCOPES

Intel Play (BLUE) computer aided microscope

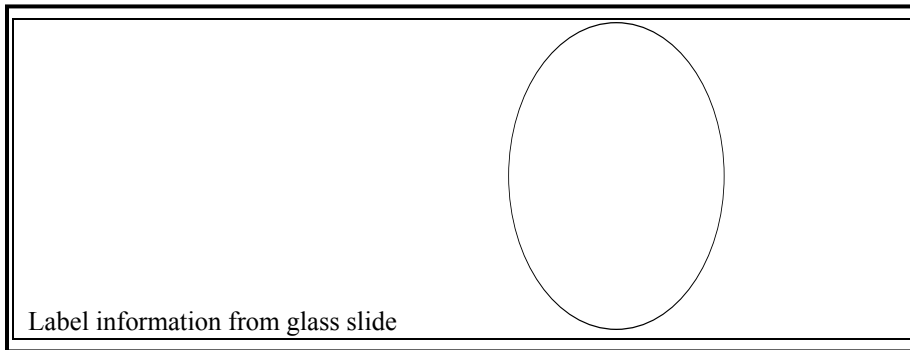


Observations

Specimen #2

Magnification_____

Compound Binocular Light Microscope or Medical Type



Observations

Magnification (___x)

_____	_____
_____	_____
_____	_____

Specimen #3 Label information _____

Dissection Microscope (65X for all) CSI TYPE



Observations

Specimen #4 _____

Exploring Tech Trek Microscopes Name _____
Student Guide

Use the materials available to create a presentation, which includes a chart, to share your findings with the class.

Your presentation should include, but is not limited to:

- Photos or pictures of specimens
- Advantages/disadvantages of each magnifying device
- Similarities and differences in specimens when viewed under the different magnifiers.

Your presentation may also include:

- Information about TEM, SEM, ESEM, and AFM.
- Uses for each different type of microscope.
- Jobs associated with the different types of microscopes.

Your presentation should be:

- Mounted on poster-board
- Clearly labeled
- Grammatically accurate
- Visually pleasing
- An accurate display of information

Your presentation may be:

- Presented with multimedia (PowerPoint, etc.)

Multimedia presentations should be:

- Clearly labeled
- Grammatically accurate
- Visually pleasing
- An accurate display of information